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TI - Absorption materials such as sanitary towels, sheets and diapers for absorbing body fluids - has an absorption strip configured to the inner surface of shorts and the strip projecting outwardly from a trunk is folded and adhered by an adhesive layer on exterior of shorts

IW - ABSORB MATERIAL SANITARY TOWEL SHEET DIAPER ABSORB BODY FLUID ABSORB STRIP CONFIGURATION INNER SURFACE SHORTS STRIP PROJECT OUTWARD TRUNK FOLD ADHERE ADHESIVE LAYER EXTERIOR SHORTS

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AB - JP11318985 NOVELTY - An absorption main body (1) has an absorption strip for absorbing body fluids, provided to the inner surface of shorts (12). The absorption strip projects outwardly from a trunk (13) of the shorts. The strip projecting is folded and adhered on the exterior of the shorts, by an adhesive layer (10) formed on the exterior of the protruding strip.

- USE - Absorption materials such as sanitary towels, sheets, and diapers are used for absorbing body fluids.

- ADVANTAGE - Leakage of body fluids by the disposition of the absorption material during exercise or any body movement can be prevented reliably. DESCRIPTION OF DRAWING(S) - The figure shows the absorption main body provided on the inner surface of shorts. (1) Absorption main body; ; (10) Adhesive layer; ; (12) Shorts; ; (13) Trunk.

PATENT ABSTRACTS OF JAPAN

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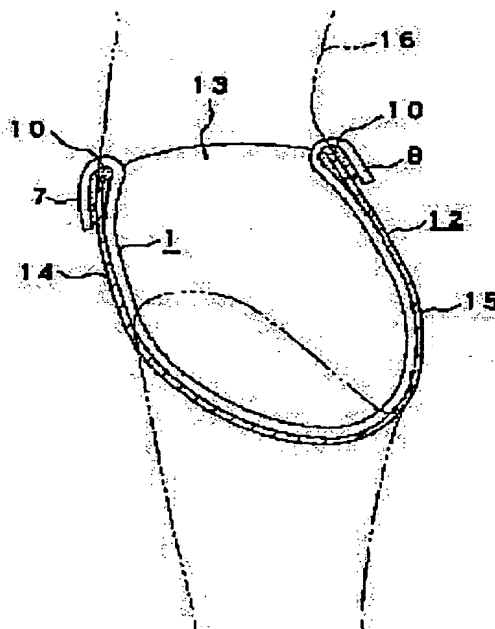
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(54) BODY FLUID ABSORPTIVE ARTICLE

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the slippage between an absorptive article and a body fluid outflow part even when a pair of panties is shifted from the body, surely absorb the body fluid and prevent the horizontal leakage of the body fluid by forming both longitudinal ends into a length protruding outward from the body opening of the panties, and forming an adhesive layer to be folded down and fixed to the outer surface of the panties.

SOLUTION: An absorbing body 1 has a body fluid absorbing structure formed by interposing an absorbing layer consisting of pulp or polymer absorbent between a body fluid permeable surface layer and a body fluid impermeable leakage preventing layer. The surface layer side is brought into contact with a body fluid outflow part, whereby the body fluid is absorbed in the absorbing layer through the surface layer. The absorbing body 1 is formed into a length such that end flaps 7, 8 on both end parts are protruded outward from a body opening part 13 on the upper end of a pair of panties 12. The release papers of adhesive layers 10 protruded out from the body opening part 13 are peeled to fold down and fix the adhesive layers 10 to the outer surface of the panties 12.



LEGAL STATUS

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3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention -- a sanitary napkin and a vaginal discharge -- body fluid absorptivity goods, such as a sheet and a diaper for incontinentia, are started

[0002]

[Description of the Prior Art] In what is conventionally used in such body fluid absorptivity goods, connecting with shorts etc., unifying body fluid absorptivity goods and shorts certainly is performed. For example, body fluid absorptivity goods tend to be attached firmly to the KUROTCCHI section of shorts through a binder, and it is going to prevent gap of body fluid absorptivity goods etc. by unifying shorts and body fluid absorptivity goods certainly.

[0003]

[Problem(s) to be Solved by the Invention] However, when gap of shorts occurs in a length-from-the-crotch-to-the-cuff portion by the movement of the body at the time of wearing use of body fluid absorptivity goods, absorptivity goods also produce gap with shorts. Therefore, body fluid absorptivity goods could not respond to the outflow section of body fluid, but there was a case where horizontal leakage etc. was produced.

[0004] this invention tends to make it possible to prevent the horizontal leakage of body fluid etc. while it prevents gap with absorptivity goods and the body fluid defluxion section and enables absorption of body fluid certainly by the movement of the body, when gap arises between the shorts and the bodies with which it equipped, since it solves the technical problem like ****.

[0005]

[Means for Solving the Problem] In the state which equipped the inside of shorts with the absorption main part equipped with body fluid absorption structure, in order that this invention may solve the technical problem like ****, it forms the adhesive layer for turning up and attaching firmly to the superficies of shorts in the superficies of this lobe, and grows into them while the both ends of the length direction form in the length which can project outside from drum section opening of shorts.

[0006] Moreover, the absorption main part equipped with body fluid absorption structure may infix the absorption layer of body fluid absorptivity between the surface layer which contacts the skin and penetrates body fluid, and ***** which does not penetrate body fluid.

[0007] Moreover, an adhesive layer may be hung and formed inside drum section opening from the outside of drum section opening, and may not be formed in the position corresponding to the KUROTCCHI section of shorts.

[0008] Moreover, in the direction of ends of an absorption main part, you may arrange an elasticity material.

[0009]

[Function] Since it constitutes like ****, in order to equip the body with body fluid absorptivity goods, this invention is arranged so that the absorption main part which carried out the surface layer inside may be put on the inside of shorts, and projects the ends in the method of outside from drum section opening of shorts.

[0010] In this state, the releasing paper of the adhesive layer formed in the ends of an absorption main part does not exfoliate, but is taken as the state where the adhesive layer was covered with the releasing paper. And the shorts which has arranged this absorption main part inside is pulled up, after

adjusting suitably the protrusion condition of the both ends of an absorption main part in the state which contacted the body fluid defluxion section in the surface layer, an adhesive layer is turned up to the method of outside, and an adhesive layer is attached firmly to the superficies of shorts. In this case, naturally the releasing paper which covers the adhesive layer mentioned above exfoliates, and is performed.

[0011] Thus, when shorts produces a bodily front face and gap by movement of the body etc. by constituting, since an absorption main part is not attached firmly to shorts and one in a KUROTCHI portion, an absorptivity portion does not follow in footsteps of gap [shorts]. Therefore, even if shorts produces a bodily front face and gap, absorptivity goods can absorb certainly the body fluid which does not shift from the outflow section of body fluid and flows out of the body fluid outflow section.

[0012] Moreover, although an adhesive layer should just have the amount and area which can be certainly attached firmly to the superficies of shorts, it is good also as what is formed in an absorption main part so that an adhesive layer may be made to correspond to the superficies which minded drum section opening from the inside of shorts. Thus, if it forms, the connectability of an absorption main part and shorts will become good; and it becomes possible to prevent defluxion of an absorption main part etc. certainly.

[0013] Moreover, body fluid absorption structure can use well-known composition conventionally, and forms the absorption main part by infixing the absorption layer of body fluid absorptivity between the surface layer of body fluid permeability, and ***** of body fluid impermeability.

[0014]

[Example] If one example of this invention is explained in a drawing below, (1) is an absorption main part, infixes and forms the absorption layer (4) which consists of pulp, a macromolecule absorbent, etc. between the surface layer (2) of body fluid permeability, and ***** (3) of body fluid impermeability, and constitutes body fluid absorption structure. And by contacting a surface-layer (2) side in the body fluid defluxion section, absorption fixation of the body fluid was carried out through the surface layer (2) at the absorption layer (4), and defluxion outside is prevented by ***** (3).

[0015] Moreover, make the both sides of an absorption layer (4) face an absorption main part (1), and it makes the ends of an absorption layer (4) face a side flap (5) and (6), and forms a flap (7) and (8) by the surface layer (2) and ***** (3). Moreover, elasticity materials, such as a latex, are used for end flap (7) and (8) portion, and it is good for it also considering the wearing nature to the body as a good thing.

[0016] Moreover, the adhesive layer made from a binder (10) constituted by the hot melt etc. is formed in the front face of ***** (3) of an end flap (7) and (8). This adhesive layer (10) covers a front face with a releasing paper (11), and this releasing paper (11) is exfoliated and used only at the time of use. Moreover, the end flap (7) of both ends and (8) form this absorption main part (1) in the length which projects in the method of outside from drum section opening (13) of the upper limit of shorts (12) in the state with which the inside of shorts (12) was equipped. and the method of outside from drum section opening (13) -- a protrusion -- it constitutes so that it may exfoliate, and the releasing paper (11) of an adhesive layer (10) may be turned up on the superficies of shorts (12) and can be attached firmly the bottom And the length of an absorption main part (1) is formed in 50cm - 80cm, and sufficient cuff of the superficies of shorts (12) and a flap (7), and (8) is made possible.

[0017] Moreover, this adhesive layer (10) may not necessarily be attached firmly only to the superficies of shorts (12), and may be formed in the size which applies outside from the inside of shorts and is arranged to both sides through drum section opening (13) of shorts (12). Thus, if it forms, the wearing nature of the absorption main part (1) to shorts (12) will become good.

[0018] In what was constituted like ****, when using it, equipping shorts (12) with this, it arranges in the state where ***** (3) of an absorption main part (1) is put on the inside of shorts (12). And physical relationship is arranged so that the both ends of an absorption main part (1) can be projected from drum section opening (13) of shorts (12) to the method of outside.

[0019] the amount of protrusions from drum section opening (13) of the absorption main part (1) after pulling up shorts in this state and equipping the body -- suitably -- adjusting -- the lobe -- the predecessor time of shorts (12) -- a side -- (14) and later self -- time -- side -- it turns up on the

outside of drum section opening (13) in 15) Before this cuff, the releasing paper (11) which has covered the adhesive layer (10) is exfoliated, and an absorption main part (1) is fixed to shorts (12) by the adhesive layer (10).

[0020] Thus, although firm attachment fixation of the absorption main part (1) is certainly carried out by constituting at the drum section opening (13) portion of shorts, it is not fixed to shorts (12) in the KUROTCCHI section corresponding to the outflow section of body fluid. Therefore, by movement of the body etc., when shorts (12) shifts from a wearing person's (16)'s front face and the outflow section and the shorts (12) of body fluid shift especially, an absorption main part (1) cannot follow in footsteps of movement of shorts (12), and the outflow section and the absorption main part (1) of body fluid can maintain good contact physical relationship. Therefore, the horizontal leakage of body fluid etc. is not produced and it becomes usable [a safe absorption main part (1)].

[0021] moreover -- although the case where equipped shorts (12) with the absorption main part (1), and it was used as a sanitary napkin in the above-mentioned example was explained -- not necessarily -- as a sanitary napkin -- a vaginal discharge, and it is used as a panties liner etc. or, of course, is also used as putt for incontinentia -- it is possible [using it as a sheet] Moreover, it is also possible to use it as male putt for incontinentia by equipping the inside worn under for males.

[0022] In this case, it becomes a natural possible thing not only shorts (12) but to use for the outdoor shoes for males. Although the outdoor shoes for males do not have the good fit nature to the body as compared with the shorts for women, it becomes possible also in this case to carry out firm attachment fixation certainly to drum section opening (13) of the outdoor shoes for males, and to make an absorption main part (1) fit at the body of an absorption main part (1) through an adhesive layer (10).

[0023] Moreover, in the one above-mentioned example, the area of an adhesive layer (10) is widely formed by making a center section narrow, as shown in drawing 2 and drawing 3 , and making the direction of ends broad, and the configuration of this absorption main part (1) also makes fit nature to the body good, while making good fixation nature, such as shorts in drum section opening (13).

[0024] Moreover, as an absorption main part (1) is shown in drawing 5 , it is [in / a different example] good also as what forms in the same width of face from an end to the other end, and decreases the amount of the member used.

[0025] Furthermore, in a different example, as shown in drawing 6 , by forming the end side of an absorption main part (1) broadly, ***** (3) can be formed widely, when there are many prolonged use at the time of sleep etc. or flows of body fluid, the covering-surface product by ***** (3) can be made [in / many], and positive prevention of horizontal leakage etc. can be enabled.

[0026]

[Effect of the Invention] Since this invention was constituted like ****, when gap etc. arises by movement etc. between shorts and the body to wear, since a body fluid absorber cannot follow in footsteps of movement [, such as shorts or outdoor shoes,] and can be certainly arranged in the outflow section of body fluid, it can prevent accident, such as horizontal leakage, certainly.

[Translation done.]